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Results of Micrometer Measures of Double Stars made with the 28-inch Refractor at the Royal Observatory, Greenwich, in the years 1894 and 1895.

(*Communicated by the Astronomer Royal.*)

The measures were made with a bifilar position micrometer on the 28-inch refractor. The power generally used was 670, but a power of 1030 was used when observing close pairs, and when the definition permitted. A blue glass shade was employed to diminish the light and irradiation, when bright stars were observed. The observers' initials in the last column, WC, D, M, L, H., WB, GEN, are those of Mr. Christie, Mr. Dyson, Mr. Maunder, Mr. Lewis, Mr. Hollis, Mr. Bowyer, and Mr. Niblett respectively. Fuller details of the observations will be published in due course in the Greenwich volumes for 1894 and 1895.

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	Star's Name.		R.A. 1900. h m s	N.P.D. 1900. ° ′	Position Angle. °	Distance. ″	No. of Nights.	Magnitudes.		Epoch 1890+.	Observer
Σ 3062	Bradley 3210		0 0 59	32 9	150·6	1·57	1	6·9	8·0	5·107	D.
			...	...	151·9	1·58	1	...		5·107	M.
OΣ 2		AB	0 8 11	63 36	30·8	0·49	2	6·9	8·3	5·857	L.
h 1007		AC	...	...	225·5	17·23	1	6·9	9·6	5·901	,,
β 1027			0 9 44	69 3	180·5	1·38	1	7·7	11·5	5·901	,,
*β 1093	Lalande 375		0 15 44	79 34	42·0	...	1	7·3	8·2	5·901	,,
OΣ 20	66 Piscium		0 49 17	71 21	328·9	0·35	1	5·9	7·0	4·887	,,
			...	...	335·0	0·32	2	...		5·895	,,
Σ 73	36 Andromedæ		0 49 36	66 55	15·8	1·41	1	6·2	6·8	4·882	,,
			...	...	11·2	1·28	3	...		5·904	,,
β 1228	D.M. 12°·133		1 0 33	77 13	268·1	0·51	1	8·3	8·9	5·879	,,
β 303			1 4 15	66 44	285·7	0·62	3	7·2	7·2	5·914	,,
	φ Piscium		1 8 19	65 57	226·4	7·89	1	4·7	10·1	5·912	,,
β 1029	ζ Piscium	BC	1 8 33	82 57	240·1	...	1	7·3	13·5	5·904	D.
Σ 113	42 Ceti		1 14 42	91 2	349·7	1·67	1	6·2	7·2	4·887	L.
β 1164	95 Piscium		1 22 28	84 10	162·4	0·43	2	6·7	7·0	5·492	,,
β 506	η Piscium		1 26 8	75 10	25·0	0·63	1	4·0	10·5	5·879	,,
β 507			1 30 21	63 44	156·9	2·16	1	8·0	11·0	5·868	,,
Σ 138	Piazzi I. 123		1 30 49	82 52	37·5	1·51	2	7·3	7·3	5·916	,,
Σ 155	W.B. (1) I. 666–7		1 38 57	81 1	327·6	4·83	1	7·5	7·9	5·904	D.

* Rough.

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	Star's Name.		R.A. 1900.	N.P.D. 1900.	Position Angle.	Distance.	No. of Nights.	Magnitudes.	Epoch 1890+.	Observer.
			h m s	° ′	°	″				
Σ 155	W.B. (1) I. 666–7		1 38 57	81 1	327·3	5·02	1	7·5 7·9	5·912	L.
β 509			1 38 28	80 56	257·5	0·74	1	8·4 8·7	5·912	,,
Σ 158			1 40 59	57 20	256·9	2·11	1	8·3 8·8	5·868	,,
β 510			1 43 9	74 10	333·9	2·08	1	8·1 10·5	5·901	,,
Hough			1 45 40	65 50	351·3	0·36	1	7·5 7·7	4·887	,,
			...	...	...	0·51	1	...	5·868	,,
Σ 180	γ Arietis		1 48 2	71 12	0·9	8·53	1	4·2 4·4	5·868	,,
β 512			1 48 18	71 13	292·0	1·25	1	8·6 11·7	5·868	,,
Σ 183		AB	1 49 30	61 41	356·9	0·67	1	7·5 8·2	5·868	,,
		AC	...	...	163·5	5·35	1	7·5 8·8	5·868	,,
Σ 205	γ¹ Andromedæ		1 57 45	48 9	63·2	10·33	1	3·0 5·0	5·841	,,
OΣ 38	γ² Andromedæ		1 57 46	48 9	286·6	...	3	5·0 6·2	5·872	D.
			...	..	291·3	0·21	5	...	5·907	L.
Σ 208	10 Arietis		1 57 59	64 33	62·3	1·03	1	6·2 8·4	5·868	,,
Σ 228			2 7 37	43 1	69·4	0·37	3	6·7 7·6	5·869	,,
β 876	A of Σ 258		2 17 57	56 57	233·6	1·00	1	7·7 11·9	5·868	,,
		CD	...	...	33·7	6·14	1	8·9 9·2	5·868	,,
β 262			2 41 45	59 22	239·7	1·59	2	8·2 9·6	5·896	,,
β 525	Bradley 414		2 53 14	68 47	125·9	0·23	2	7·5 7·5	5·896	,,
Σ 333	ε Arietis		2 53 29	69 4	202·3	1·39	2	5·7 6·0	5·896	,,
β 1030			3 4 19	73 40	165·0	0·71	2	8·4 8·4	5·924	,,

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	Star's Name.		R.A. 1900.	N.P.D. 1900.	Position Angle.	Distance.	No of Nights.	Magnitudes.	Epoch 1890+.	Observer.
			h m s	° ′	°	″				
Σ 412	7 Tauri		3 28 30	65 52	34·4	0·37	1	6·6 6·9	5·059	D.
			...	...	23·1	0·36	2	...	5·466	L.
OΣ 531	Piazzi III. 242		4 0 53	52 11	127·3	2·45	2	6·5 8·2	5·875	„
Σ 535			4 17 45	78 51	330·5	2·07	1	6·7 8·2	5·078	„
			...	...	328·5	1·68	1	...	5·876	D.
β 560			5 42 54	60 18	155·3	0·52	1	8·0 8·5	5·078	L.
Σ 1074	Piazzi VII. 81	AB	7 15 23	89 25	137·4	0·58	2	7·8 8·2	5·193	„
β 577		AC	...	...	106·1	14·15	1	7·8 13·5	5·192	„
Σ 1110	Castor		7 28 11	57 53	227·9	6·33	1	2·7 3·7	5·274	D.
			...	...	225·0	6·18	1	...	5·274	L.
OΣ 182			7 47 28	86 21	210·7	1·58	1	7·0 7·5	5·194	D.
			...	...	...	1·20	1	...	5·194	H.
			...	...	211·3	1·37	2	...	5·196	L.
β 581		AB	7 58 52	77 25	278·3	0·45	1	8·5 8·6	5·279	„
		AC	...	...	199·3	4·82	1	8·5 11·5	5·279	„
Σ 1196	ζ Cancri	AB	8 6 29	72 3	21·9	1·23	2	5·0 5·7	5·233	„
		AC	...	...	117·2	5·10	2	5·0 5·5	5·233	„
		BC	...	...	127·9	5·58	2	5·7 5·5	5·233	„
Σ 1263	Lalande 17161		8 38 36	47 56	20·6	51·42	1	7·6 8·2	5·296	„
†Σ 1273	ε Hydræ		8 41 29	83 13	231·4	3·74	1	3·8 7·8	5·230	„

† Definition bad.

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Star's Name.			R.A. 1900. h m s	N.P.D. 1900. ° ′	Position Angle. °	Distance. ″	No. of Nights.	Magnitudes.	Epoch 1890+.	Observer.
Σ 3121			9 11 57	61 0	189·3	0·65	4	7·5 7·8	5·238	L.
OΣ 201			9 17 59	61 40	223·3	1·40	1	7·5 8·9	5·307	,,
Σ 1348			9 19 13	83 13	319·5	1·63	1	7·5 7·6	5·307	,,
Σ 1356	ω Leonis		9 23 5	80 30	108·4	0·72	1	6·2 7·0	5·192	,,
Σ 1377	Piazzi IX. 161		9 38 17	86 55	138·3	3·68	1	7·9 11·1	5·186	,,
Σ 1389			9 46 42	62 33	308·9	2·30	1	8·0 9·0	5·236	,,
OΣ 215	Piazzi X. 23		10 10 49	71 46	209·0	1·01	3	6·7 7·0	5·239	,,
Σ 1424	γ Leonis		10 14 7	69 39	114·2	3·64	4	2·0 3·5	5·226	,,
			...	...	111·7	3·64	1	...	5·274	D.
Σ 1426		AB	10 15 17	83 4	282·3	1·00	1	7·8 8·3	5·279	L.
		AC	...	...	7·0	4·38	1	7·8 9·3	5·279	,,
OΣ 224	Piazzi X. 128		10 34 29	80 38	321·4	0·47	2	7·2 9·2	5·228	,,
OΣ 228			10 41 51	66 54	189·5	0·62	2	7·2 8·1	5·296	,,
Σ 1504	Piazzi X. 229		10 58 49	85 49	282·0	1·56	1	7·5 7·6	5·282	D.
β 915			...	...	226·7	1·14	1	...	5·356	L.
Σ 1523	ξ Ursæ Maj.		11 12 52	57 54	176·0	1·98	1	4·0 4·9	5·326	,,
Σ 1536	ι Leonis		11 18 42	78 54	58·2	2·54	2	3·9 7·1	5·280	,,
Σ 1555	Piazzi XI. 111	AB	11 31 3	61 40	344·5	0·50	1	6·4 6·8	5·290	D.
			...	...	347·9	0·40	1	...	5·296	L.
		AC	...	...	146·3	21·64	1	6·4 10·3	5·296	,,
β 603			11 45 25	75 5	...	1·05	1	...	5·205	D.

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	Star's Name.	R.A. 1900.	N.P.D. 1900.	Position Angle.	Distance.	No. of Nights.	Magnitudes.		Epoch 1890+.	Observer.
		h m s	° ′	°	″					
Σ 1639		12 19 26	63 52	277·1	0·28	1	6·7	7·9	5·236	L.
Σ 1658		12 30 2	82 0	355·4	2·40	1	8·0	9·8	5·279	,,
Σ 1661		12 30 57	78 2	237·3	2·52	1	8·5	8·5	5·350	,,
β 112	Piazzi XII. 243 BC	12 55 45	71 5	...	2·57	1	9·3	9·8	5·408	D.
		...	...	297·5	2·34	1	...		5 408	L.
OΣ 266	Lalande 24930	13 23 33	73 46	337·9	1·47	1	7·3	7·8	5 345	,,
β 612	B.A.C. 4559	13 34 38	78 42	213 6	0·43	1	6·4	6·5	5·323	,,
Σ 1785		13 44 32	62 31	262·2	1·44	1	7·2	7·5	5 460	,,
Σ 1877	ε Boötis	14 40 37	62 29	336·6	3·21	1	3·0	6·3	5·423	,,
Σ 1879		14 41 18	79 56	144·6	0·40	2	7·8	8·8	5·440	,,
Σ 1944		15 22 46	83 33	329·5	1·08	1	7·5	8·1	4·509	,,
Σ 1967	γ Coronæ Bor.	15 38 33	63 23	123·5	0·54	1	4·0	7·0	4·504	,,
Σ 2052		16 24 29	71 23	97·5	2·24	1	7·5	7·5	5·564	,,
Σ 2055	λ Ophiuchi	16 25 53	87 48	44·9	1·20	1	4·0	6·1	4·509	,,
		...	...	43·6	1·25	1	...		5·430	,,
Σ 2084	ζ Herculis	16 37 31	58 13	40·4	1·23	2	3·0	6·5	4·541	,,
		...	...	37·9	0·67	1	...		5·444	,,
Σ 2106		16 46 21	80 25	306 8	0·35	2	6·7	8·4	5·527	,,
Σ 2107		16 47 53	61 10	286·8	0·49	2	6·5	8·0	5·527·	,,
Σ 2114	Piazzi XVI. 270	16 57 11	81 24	159 6	1·29	1	6 2	7·4	4·509	,,
		...	...	154·9	1 20	3	...		5·555	,,

Star's Name.			R.A. 1900. h m s	N.P.D. 1900. ° ′	Position Angle. °	Distance. ″	No. of Nights.	Magnitudes.	Epoch 1890+.	Observer.
Σ 2120			17 0 48	61 46	246·6	7·03	1	6·4 9·2	5·578	L.
Σ 2140	α Herculis		17 10 5	75 28	117·5	4·87	1	3·0 6·1	4·528	,,
			...	...	115·8	4·98	1	...	5·515	,,
Σ 2173			17 25 15	90 59	336·8	1·15	2	5·8 6·1	4·541	,,
Σ 2205			17 40 6	72 14	308·3	2·15	1	8·3 8·7	5·611	,,
β 631			17 34 47	90 36	69·8	0·37	1	7·5 7·6	5·682	,,
Σ 2215			17 41 17	72 15	292·6	0·72	2	5·9 7·9	5·595	,,
A.C. 7	μ Herculis	BC	17 42 33	62 13	42·9	1·46	1	10·0 10·1	5·482	,,
OΣ 337	Piazzi XVII. 260		17 45 40	82 44	98·6	0·44	1	7·5 8·0	5·682	,,
OΣ 338			17 47 27	74 39	17·2	0·81	2	6·6 6·9	5·666	,,
			...	...	17·5	0·63	1	...	5·723	D.
Σ 2272	70 Ophiuchi		18 0 23	87 29	295·9	2·65	1	4·1 6·1	5·693	L.
A.C. 15	99 Herculis		18 3 14	59 28	293·4	0·34	2	6·0 11·5	5·652	,,
Σ 2289			18 5 50	73 33	233·5	1·02	2	6·0 7·1	5·701	,,
			...	...	233·3	1·24	1	...	5·723	D.
Σ 2315			18 21 0	62 40	199·6	0·24	1	7·9 8·6	4·531	L.
			...	...	222·9	0·37	2	...	5·527	,,
			18 19 30	62 41	317·9	4·75	1	9·0 10·0	5·487	,,
OΣ 357			18 31 15	78 21	252·5	0·34	1	7·5 7·6	5·660	,,
OΣ 358			18 31 35	73 6	197·3	1·98	1	6·8 7·2	5·660	,,
Σ 2400		AB	18 44 26	73 52	188·0	1·91	3	8·0 11·1	5·667	,,

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Star's Name.			R.A. 1900.	N.P.D. 1900.	Position Angle.	Distance.	No. of Nights.	Magnitudes.	Epoch 1890+.	Observer.
			h m s	° ′	°	″				
Σ 2400		AC	18 44 26	73 52	194·4	3·12	3	8·0 11·0	5·667	L.
		AD	...	...	202·3	0·70	2	8·0 9·5	5·633	,,
		AD	...	...	202·5	...	1	...	5·654	D.
Σ 2402			18 45 2	79 26	206·4	1·20	2	8·0 8·4	5·694	L.
β 648	B.A.C. 6480		18 53 14	57 14	237·9	1·49	3	6·0 9·8	5·590	,,
Σ 2424	11 Aquilæ		18 54 28	76 31	263·6	16·97	1	5·7 9·2	5·687	,,
			...	...	265·7	17·01	1	...	5·687	W.B.
			...	...	264·1	17·11	1	...	5·687	N.
Σ 2525			19 22 30	62 53	327·5	0·37	1	7·4 7·6	5·654	D.
			...	...	325·3	0·35	2	...	5·686	L.
Σ 2536			19 27 5	72 25	71·7	2·14	2	8·0 11·0	5·689	,,
			19 27 20	72 9	141·0	4·54	1	10·0 11·0	5·720	,,
Σ 2556			19 35 7	67 58	148·5	0·43	2	7·3 7·8	5·686	,,
A.G.C. 11	ζ Sagittæ		19 44 32	71 6	171·7	0·24	2	4·5 6·0	5·686	,,
Σ 2585		AC	...	...	312·0	8·81	1	...	5·715	,,
O Σ 395	16 *h* Vulpeculæ		19 57 46	65 20	101·6	0·53	2	5·8 6·2	5·723	,,
			...	...	99·6	0·57	1	...	5·726	D.
Σ 2695			20 27 41	64 32	81·6	1·07	3	6·2 8·0	5·722	L.
β 151	β Delphini		20 32 51	75 45	350·3	0·66	2	4·5 6·0	5·691	D.
		AB	...	...	351·9	0·65	1	...	5·813	L.
Σ 2704	β Delphini	AC	...	...	117·8	26·14	1	4·5 11·0	5·813	,,

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	Star's Name.		R.A. 1900.	N.P.D. 1900.	Position Angle.	Distance.	No. of Nights.	Magnitudes.	Epoch 1890+.	Observer.
			h m s	° ′	°	″				
Σ 2704	β Delphini	AD	20 32 51	75 45	331·2	...	1	4·5 11·0	5·728	D.
		AD	...	...	331·0	36·66	1	...	5·813	L.
Σ 2729	4 Aquarii		20 46 8	96 0	191·8	0·20	1	5·9 7·2	5·813	,,
Σ 2737	ε Equulei	AB	20 54 5	86 5	284·4	0·77	2	5·7 6·2	5·734	,,
		AC	...	...	72·6	10·60	2	5·7 7·1	5·734	,,
Σ 2744			20 57 58	88 52	168·3	1·40	1	6·3 7·0	5·737	,,
Σ 2749		AB	20 59 43	86 52	156·6	2·77	1	7·7 8·9	5·737	,,
		AC	...	...	154·6	4·43	2	...	5·712	,,
		AD	...	...	153·0	0·59	1	...	5·737	,,
		BC	...	...	154·6	1·07	1	...	5·737	,,
Ho. 152			21 8 11	62 4	328·7	0·47	2	...	5·709	,,
β 163			21 13 45	78 51	246·9	0·63	2	7·2 9·8	5·696	,,
β 838			21 15 52	87 18	101·3	1·36	1	8·3 9·2	5·737	,,
Σ 2799			21 24 1	79 19	119·4	1·22	4	6·6 6·6	5·717	,,
			...	...	123·4	1·57	2	...	5·725	D.
Σ 2804			21 28 20	69 44	333·0	2·94	1	7·0 8·0	5·726	,,
			...	...	331·9	2·97	2	...	5·732	L.
Σ 2822	μ Cygni		21 39 40	61 42	123·2	2·91	3	4·0 5·0	5·746	,,
Σ 2824	κ Pegasi	AC	21 40 7	64 49	298·8	12·19	2	3·9 10·8	4·816	,,
			...	...	298·9	12·24	2	...	5·689	,,
β 989		AB	...	...	114·8	0·14	4	3·9 5·0	4·844	,,

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	Star's Name.		R.A. 1900.	N.P.D. 1900.	Position Angle.	Distance.	No. of Nights.	Magnitudes.	Epoch 1890+.	Observer.
			h m s	° ′	°	″				
β 989	κ Pegasi	AB	21 40 7	64 49	104·1	0·12	5	3·9 5·0	5·705	L
			...	...	104·3	...	2	...	5·727	D.
			...	...	103·0	...	1	...	5·731	W.C.
			...	...	105·8	0·11	2	...	5·846	L.
			...	...	...	0·10	1	...	5·879	D.
β 75			21 50 40	79 35	37·0	1·14	3	8·1 8·3	5·755	L.
Σ 2849			21 53 2	70 16	264·0	1·41	2	8·2 10·7	5·732	,,
			21 53 0	69 42	85·1	2·13	1	...	5·726	,,
Σ 2878			22 9 32	82 31	126·5	1·19	4	6·5 8·0	4·826	,,
Σ 2881			22 10 0	61 55	101·3	1·58	2	7·7 8·2	5·712	,,
β 1216	Lalande 43605		22 15 37	60 59	312·5	0·52	3	8·4 8·7	5·746	,,
β 1218	W.B. (2) XXII. 476		22 23 28	60 49	52·8	1·76	2	8·6 8·8	5·775	,,
Σ 2900	33 Pegasi		22 18 50	69 39	176·9	1·69	1	6·0 9·2	5·737	,,
Σ 2934			22 37 0	69 8	150·2	1·00	1	8·2 9·2	5·731	,,
β 710			22 37 53	60 48	52·3	0·43	1	8·3 8·5	5·813	,,
β 80			23 13 42	85 9	325·1	0·63	1	8·1 8·7	4·846	,,
Hough	Σ 3002 = AB		23 15 43	88 6	202·5	4·10	1	7·9 10·7	4·846	,,
		AC	...	...	204·3	5·74	1	7·9 11·2	4·846	,,
	Hough = BC		...	...	213·5	0·89	1	10·7 11·2	4·846	,,
	85 Pegasi	AC	23 56 56	63 26	350·0	28·86	1	6·0 9·0	5·058	,,
β 733		AB	...	...	177·6	0·65	2	6·0 11·0	4·979	,,
			...	...	196·3	0·47	2	...	5·857	,,